

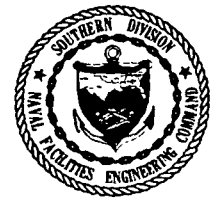
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NSB KINGS BAY
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TECHNICAL REVIEW COMMITTEE MEETING AGENDA AND SLIDES 28 OCTOBER 1993
NSB KINGS BAY GA
10/28/1993
TECHNICAL REVIEW COMMITTEE

TECHNICAL REVIEW COMMITTEE MEETING

**NAVAL SUBMARINE BASE
KINGS BAY, GEORGIA**

OCTOBER 28, 1993



AGENDA

Supplemental RFI

-  Purpose
-  Activities Planned
-  Progress To Date

Interim Measure

-  Purpose
-  Activities Planned
-  Progress To Date

Progress To Date





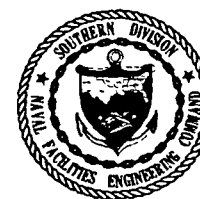
PURPOSE

- Previous investigations used screening approach and concentrated on VOCs.
- Confirmation information needs to be collected.
- Information is needed to support the health and environmental assessment and corrective action study.



SUPPLEMENTAL RFI

-  **Air Sampling**
-  **Surface Water and Sediment Sampling**
-  **Surface Soil Sampling**
-  **Test Trenching**
-  **Borehole Geophysics**
-  **Subsurface Soil Sampling**
-  **Monitoring Well Installation**
-  **Groundwater Sampling**
-  **Topographic and Elevation Survey**
-  **Ecological Survey**
-  **Public Health Survey**



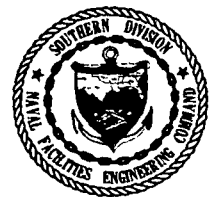
AIR SAMPLING

- **Baseline Air Quality Characterization**
- **During Excavation of Test Trenches at Landfill**

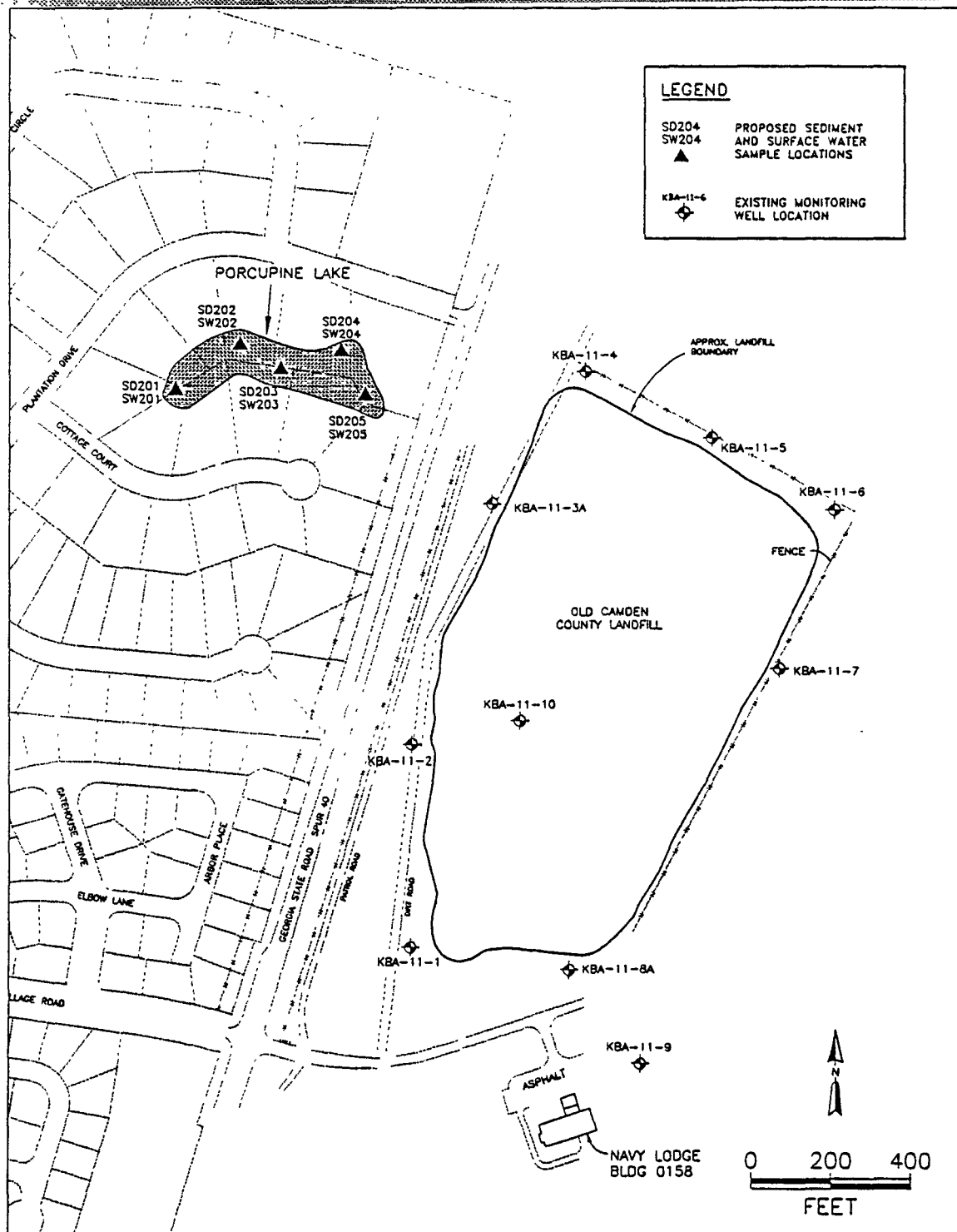


AIR SAMPLING

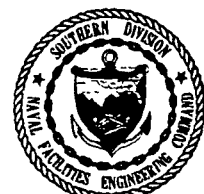
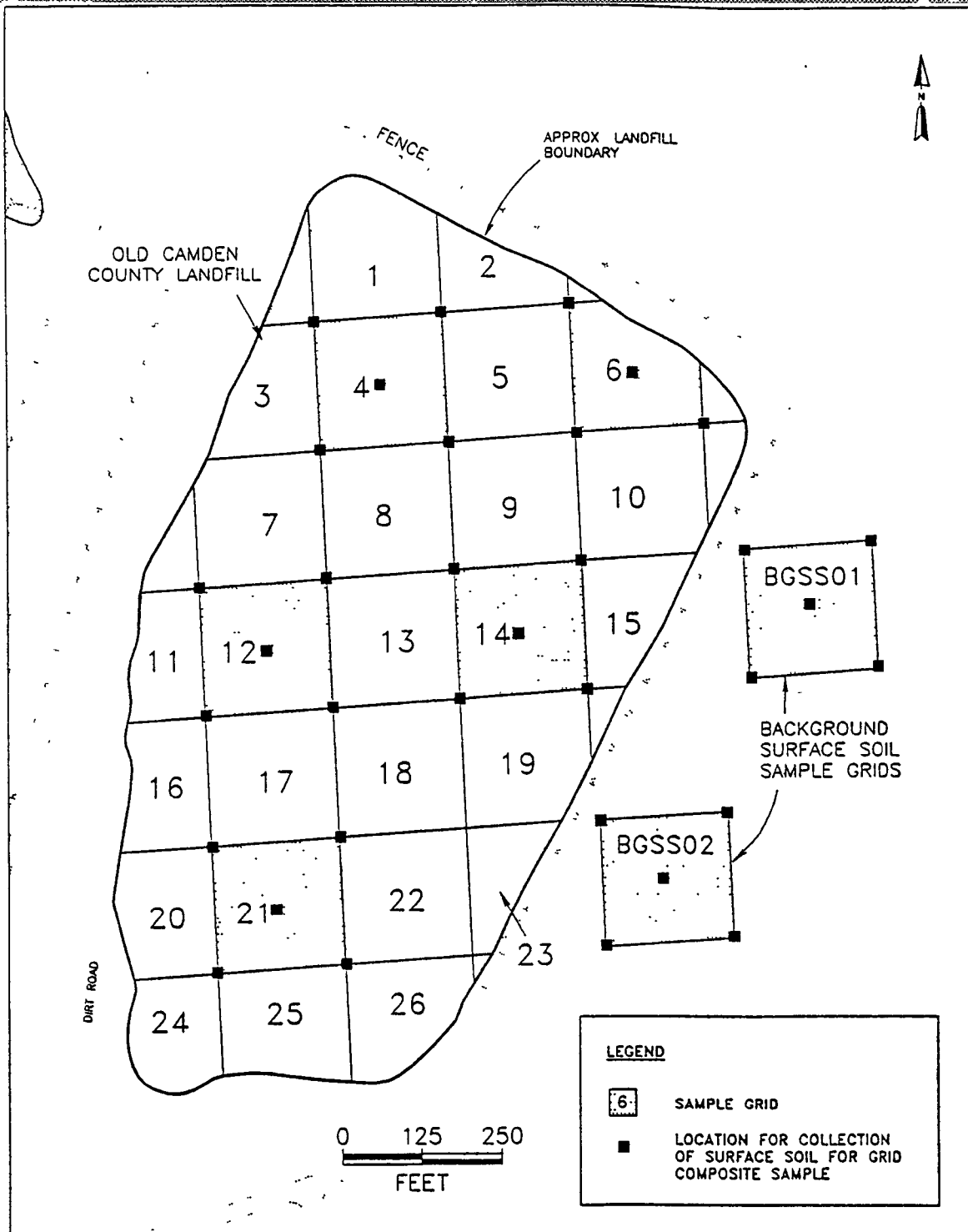
- Around Perimeter of Site 11
- In Crooked River Plantation Subdivision
- Upwind and Downwind Location
- Real-Time Measurements of Vinyl Chloride $\frac{1}{2}$ PEL
 - During Excavation of Test Trenches in Landfill
- Laboratory Samples for VOCs



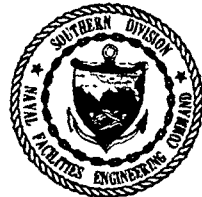
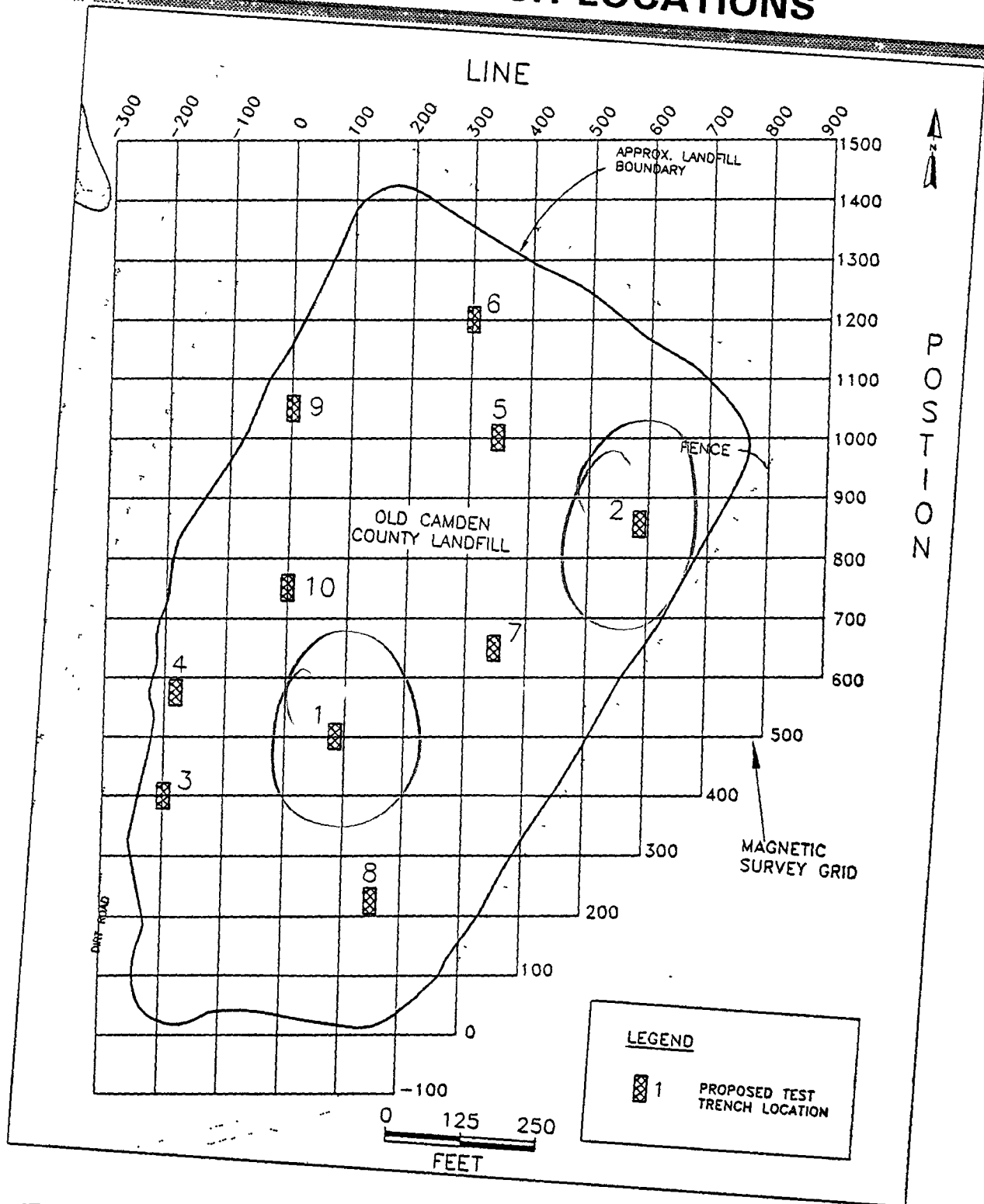
PROPOSED SEDIMENT AND SURFACE WATER SAMPLE LOCATIONS



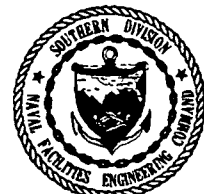
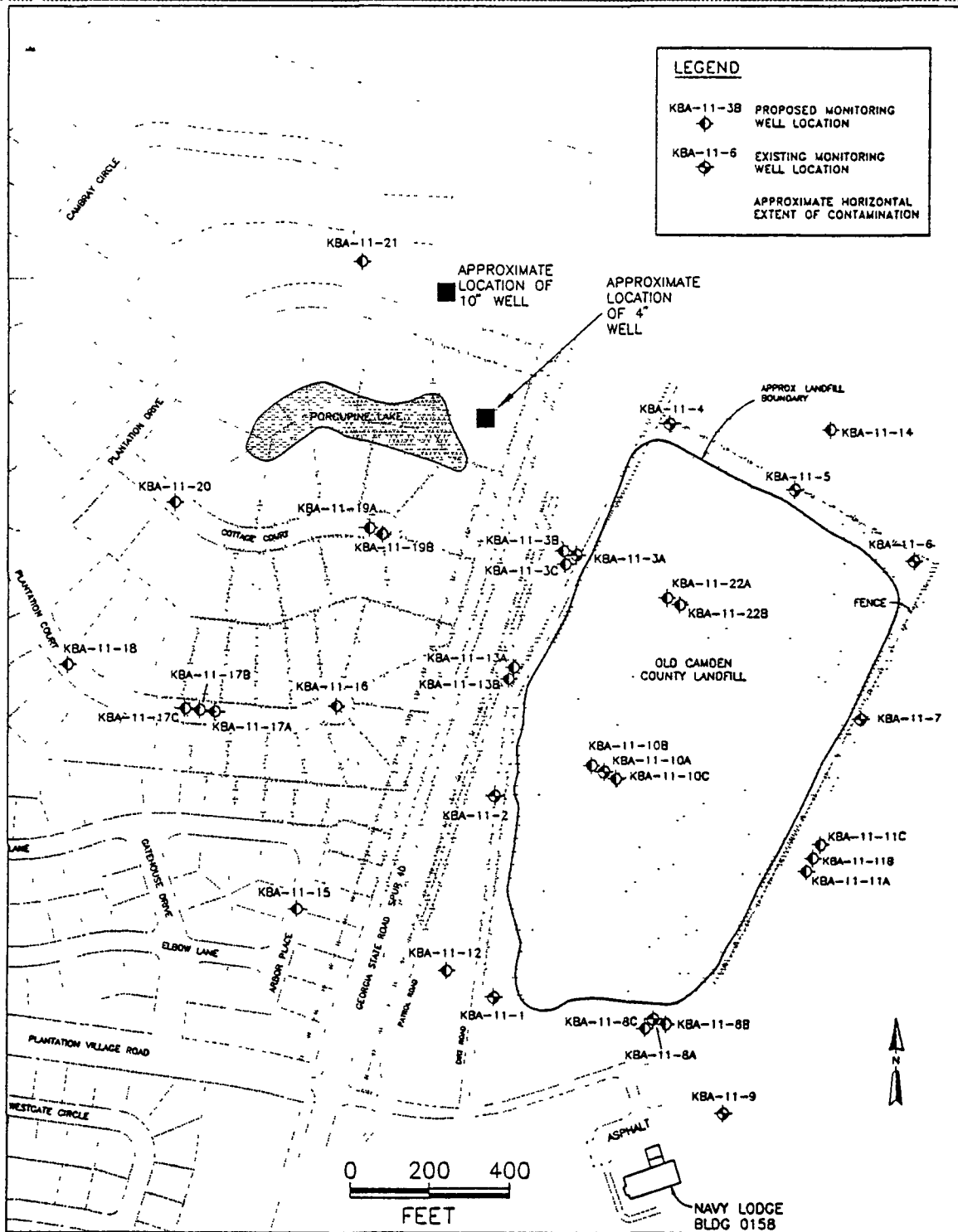
PROPOSED LOCATIONS FOR COMPOSITE SURFACE SOIL SAMPLES



PROPOSED TEST TRENCH LOCATIONS



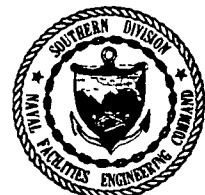
EXISTING AND PROPOSED MONITORING WELL LOCATIONS



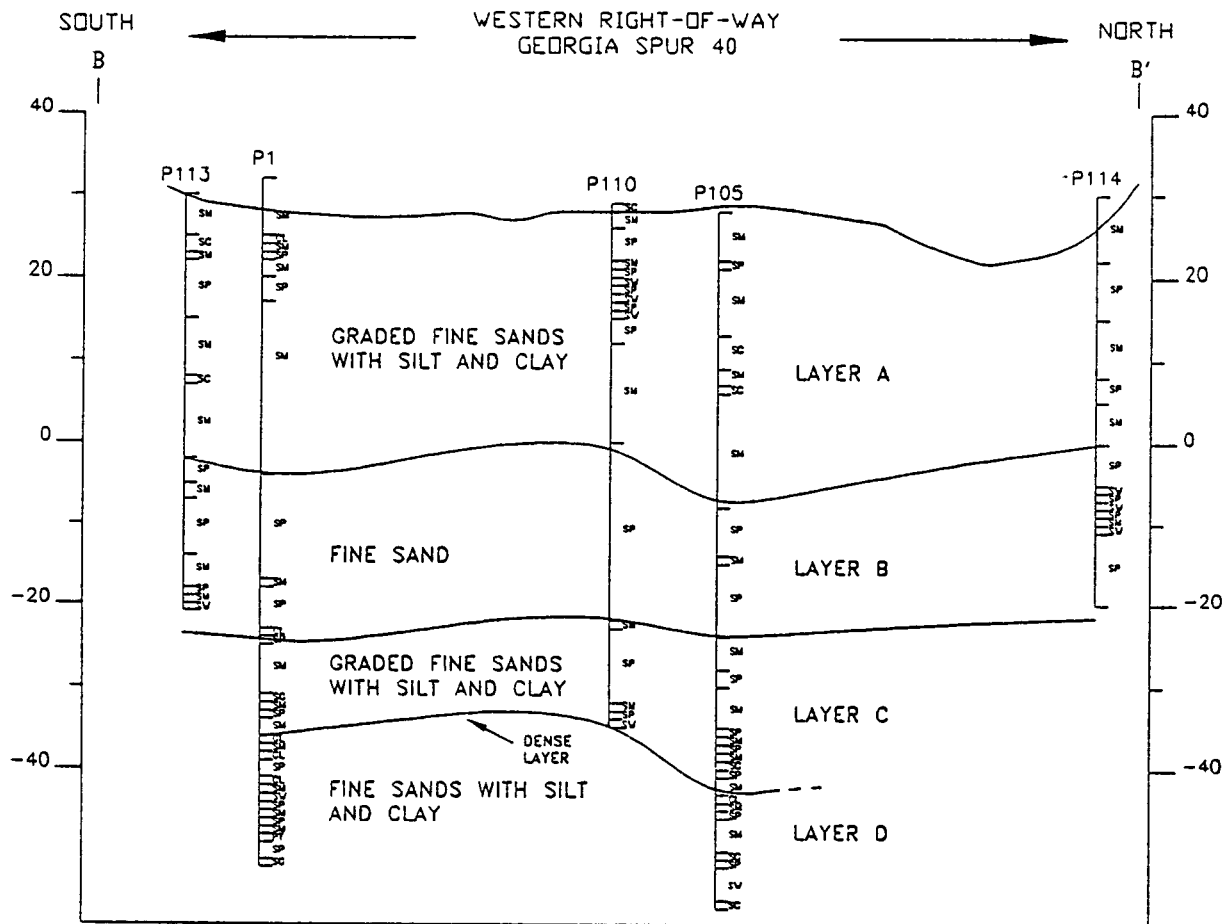
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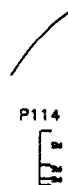


STRATIGRAPHIC CROSS SECTION



LEGEND

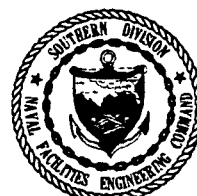
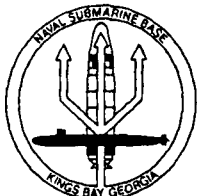
0 100 200
FEET



STRATIGRAPHIC
CONTACT

P114
PIEZOCONE SAMPLE LOCATIONS
AND ASSOCIATED UNIFIED SOIL
CLASSIFICATION SYSTEM SOIL
TYPES

NOTES:
ELEVATION IN FEET MEAN LOW WATER
VERTICAL EXAGGERATION: 10x
REFER TO FIGURE 2-11 FOR LOCATION OF CROSS SECTION



ECOLOGICAL SURVEY

- **Collect information on the ecological setting of Porcupine Lake, of Site 11, and surrounding area**
- **Identify possible wildlife species which may inhabit the area**
- **Basis for selecting potential routes of exposure for ecological receptors**



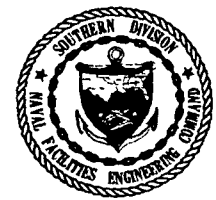
PUBLIC HEALTH SURVEY

- **Conduct area reconnaissance, interviews, and records search**
- **Collect information on activities at the subbase, as well as in the community**
- **Basis for selecting potential routes of exposure for human receptors**



HEALTH AND ENVIRONMENTAL ASSESSMENT

- **Identify Contaminants of Potential Concern**
- **Identify the Types and Magnitudes of Potential Exposures**
- **Gather Information on the Toxicity of the Contaminants of Potential Concern**
- **Combine the Information on Potential Exposures with Toxicity Information to Evaluate Potential Health Risks**

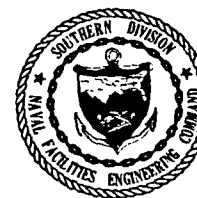
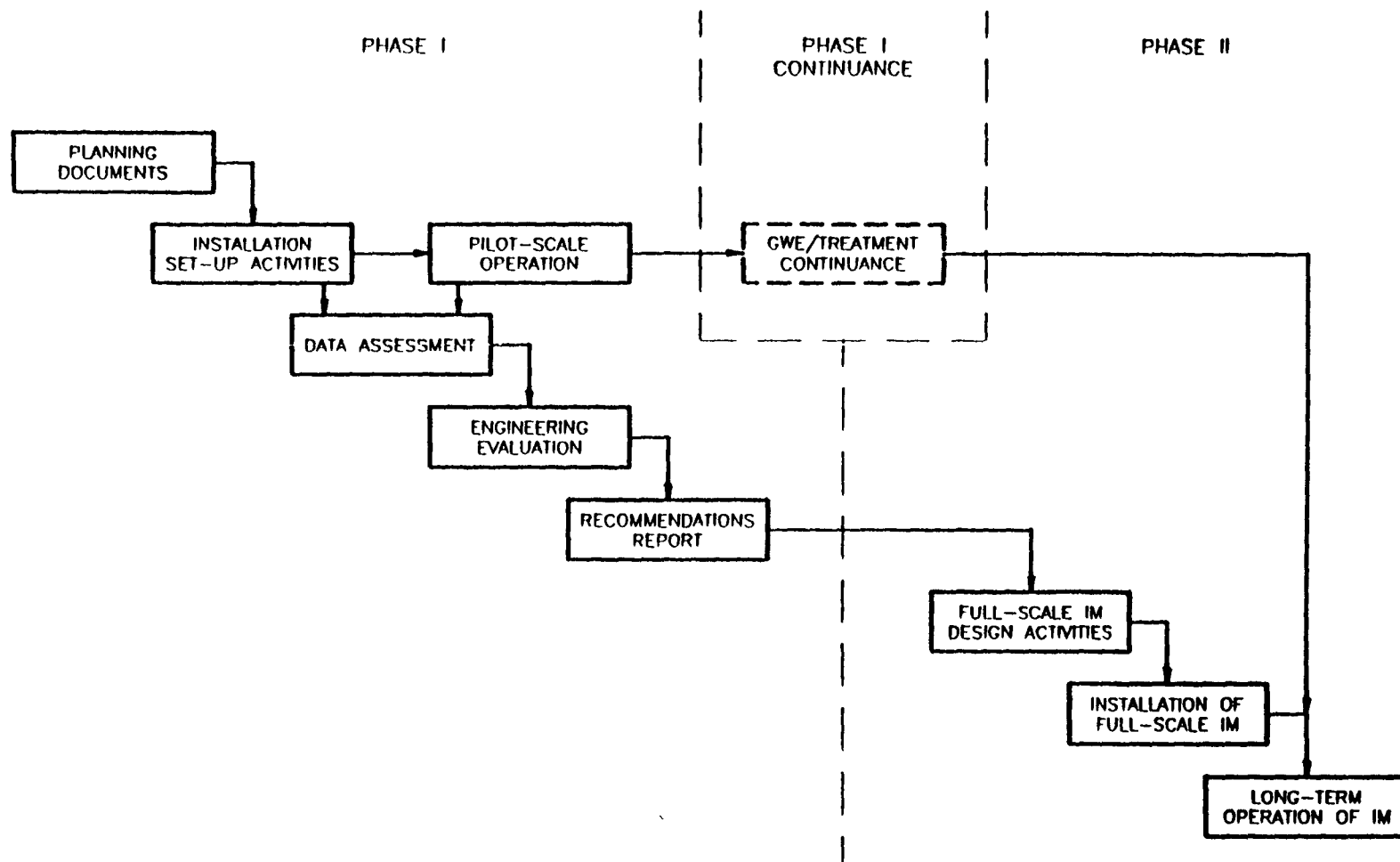


OVERALL OBJECTIVE:

To hydraulically control movement of the VOC plume within the surficial aquifer.

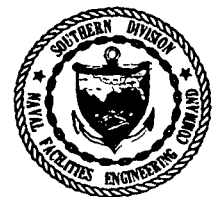
- **PHASE I:** Pilot scale system installation and operation.
- **PHASE I CONTINUANCE:** Continued operation of pilot-scale groundwater extraction system to maintain the capture zones that were created during Phase I.
- **PHASE II:** Full-scale design, implementation and operation of a system to achieve and maintain hydraulic control until a corrective action can be implemented to address the VOC plume.





PHASE I - PILOT SCALE TEST GOALS

- Evaluate the suitability of recovery wells in achieving hydraulic control of the VOC plume.
- Evaluate concentrations of VOCs present in the surficial aquifer and determine if direct discharge to a treatment works is a viable option.
- Determine which treatment technology is most effective and efficient with the least cost, if treatment is necessary for full-scale IM implementation.
- Determine if pretreatment is required and to define pretreatment parameters.

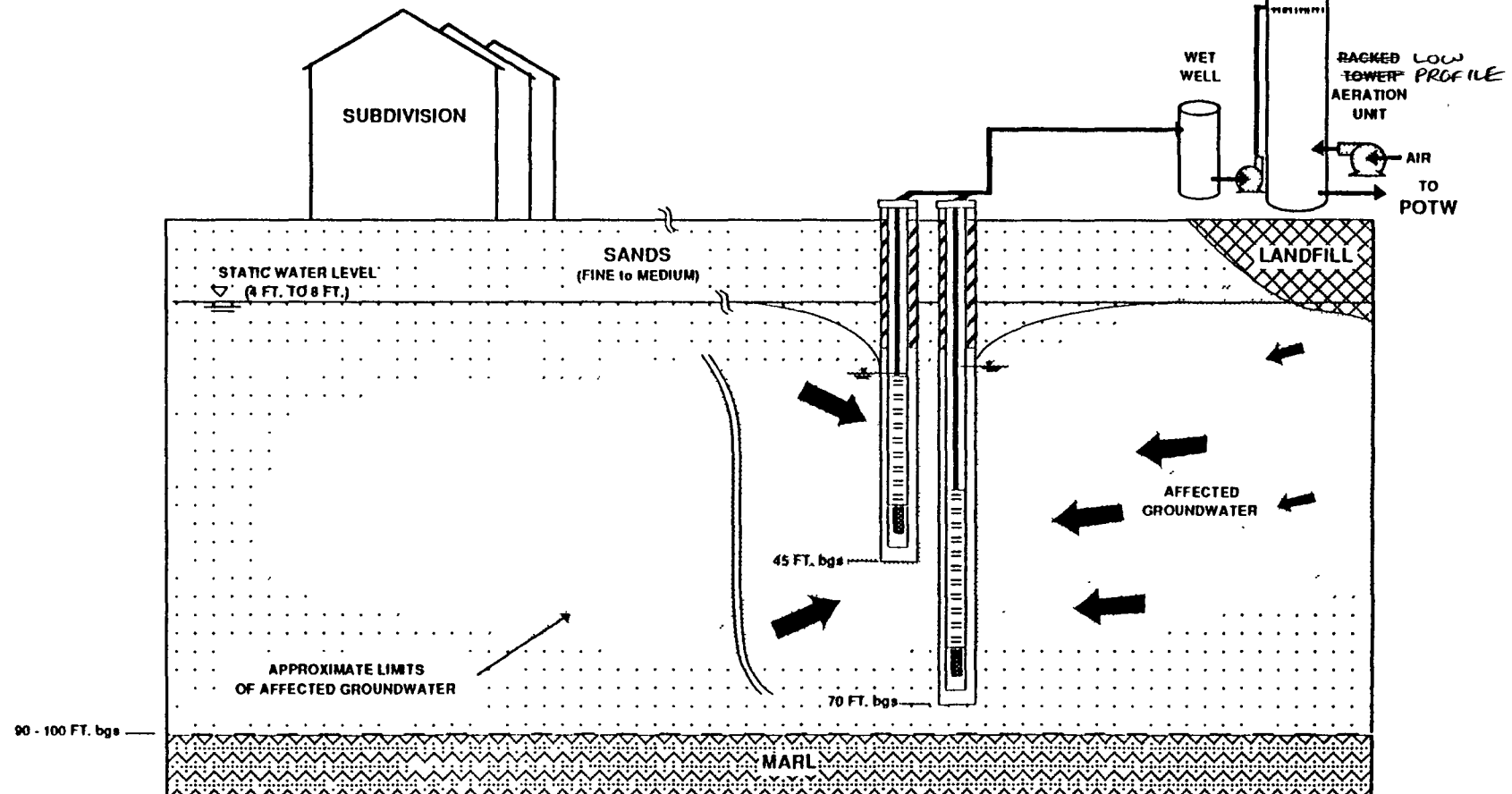


INTERIM MEASURE

WEST

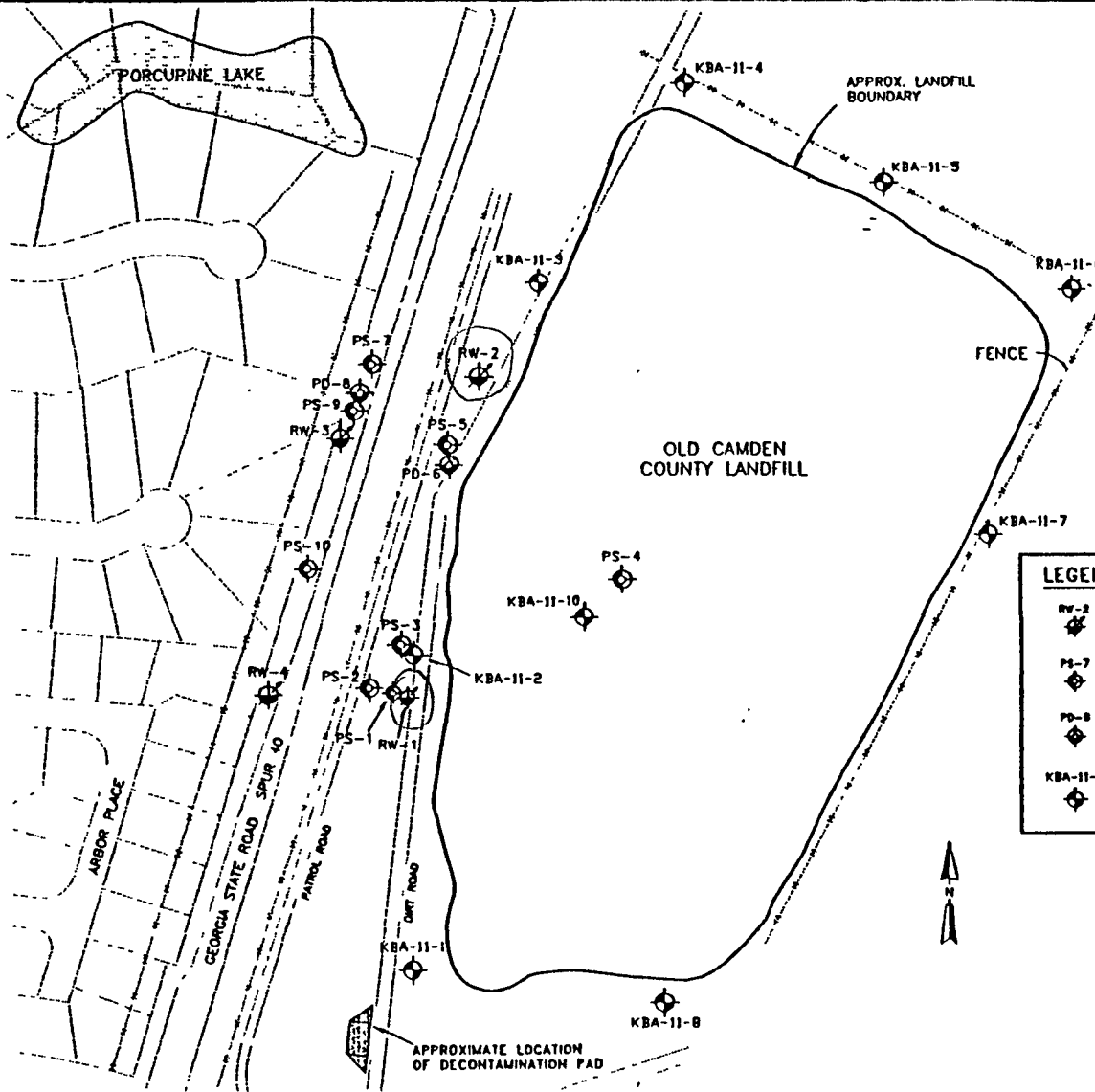
INTERIM MEASURE NSB KINGS BAY GROUNDWATER EXTRACTION AND AIR-STRIPPER SYSTEM

EAST

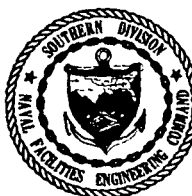


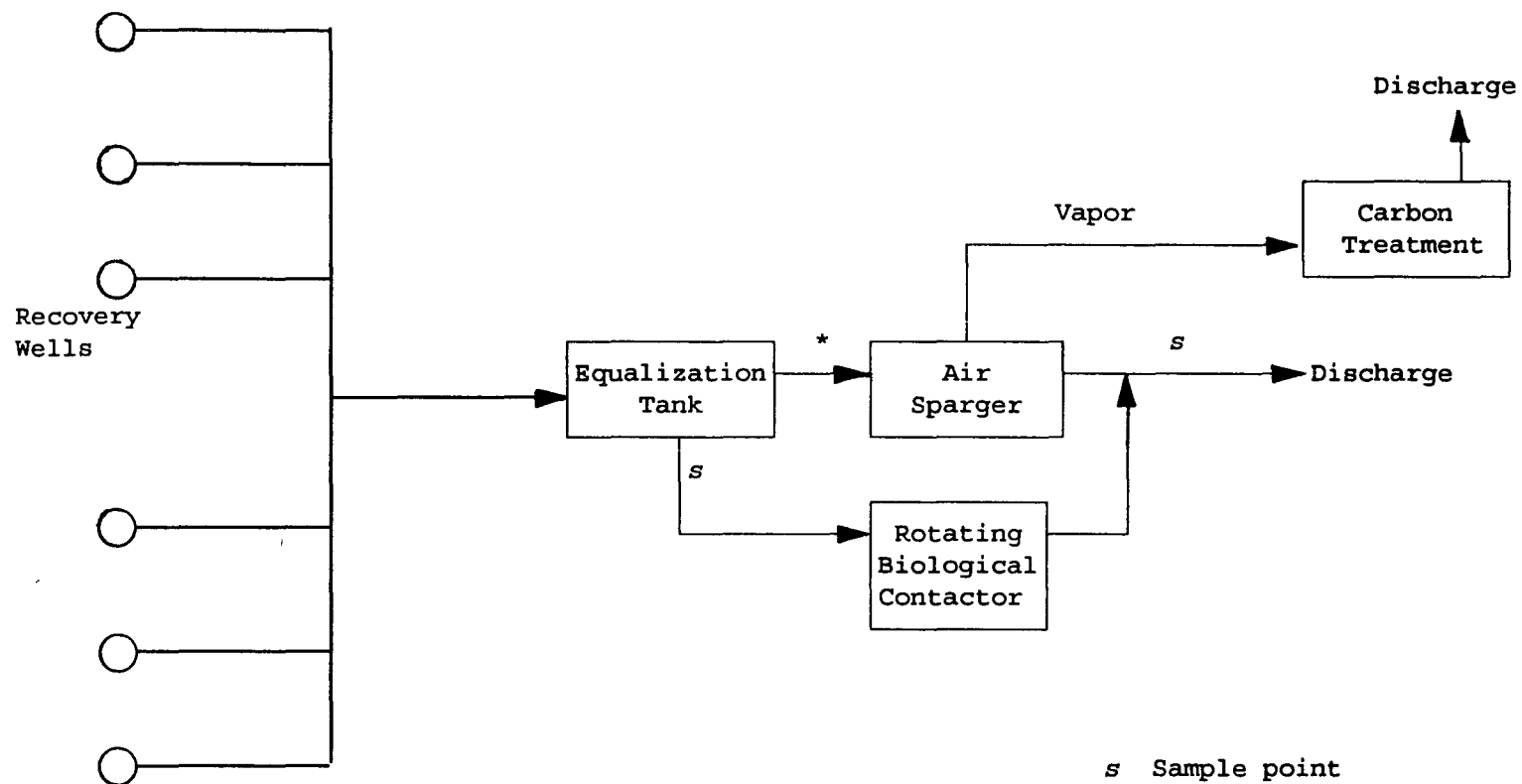
RECOVERY WELL LOCATIONS

NEED AS-BUILTS !



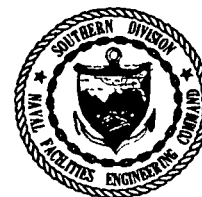
LEGEND	
RW-2	PROPOSED RECOVERY WELL LOCATION (BOTTOM OF SCREEN SET AT 75 FEET BGS)
PS-7	PROPOSED SHALLOW PIEZOMETER LOCATION (BOTTOM OF SCREEN SET AT 35 FEET BGS)
PD-8	PROPOSED DEEP PIEZOMETER LOCATION (BOTTOM OF SCREEN SET AT 60 FEET BGS)
KBA-11-5	EXISTING MONITORING WELL LOCATION



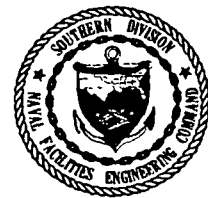
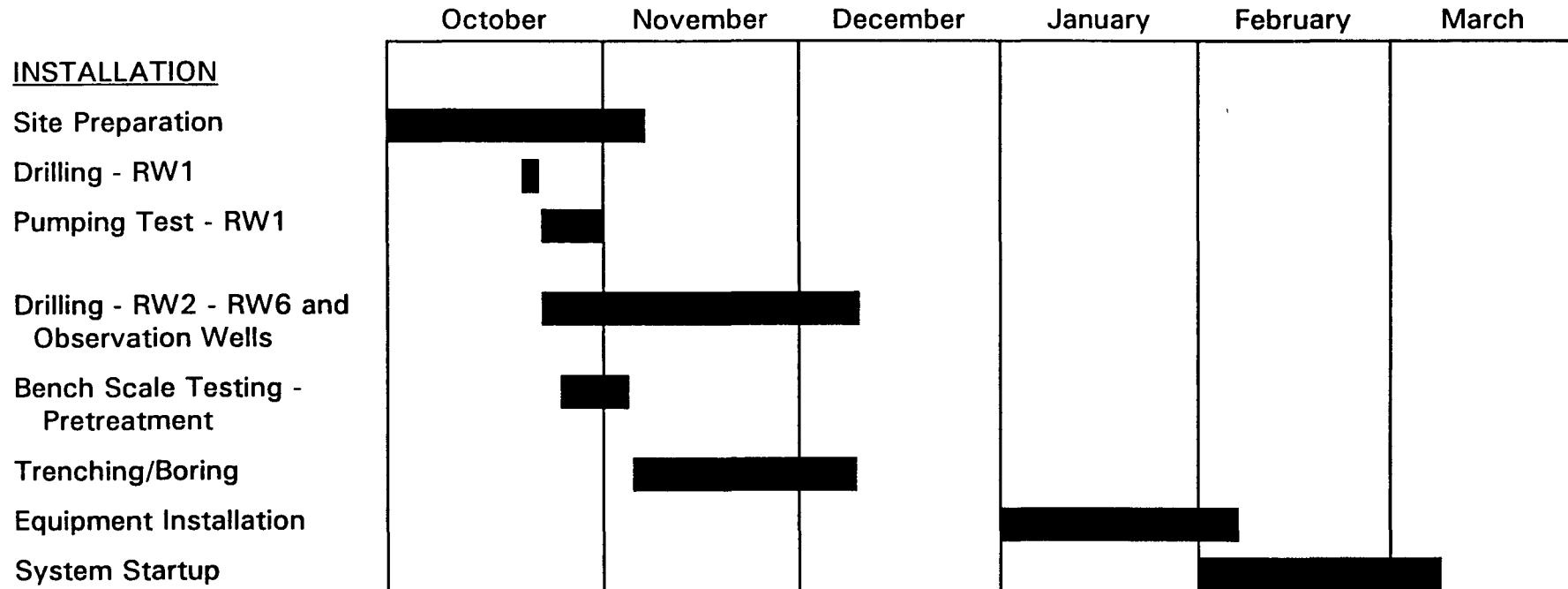


s Sample point
 * Pretreatment may be added, if required.

PILOT-SCALE SYSTEM



PRELIMINARY SCHEDULE



PRELIMINARY SCHEDULE (CONTINUED)

	October	November	December	January	February	March
<u>OPERATION</u>						
Stage 1 - RW1 Operation					██████████	
Recovery Phase/Additional Background Monitoring					██████████	
Stage 2 - RW1 and RW2 Operation						██████████
Stage 3 - RW1 - RW6 Operation						██████████

